AMENDMENTS

Please enter the following amendments:

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (**previously presented**) A synthetic oligonucleotide comprising a nucleotide sequence consisting of 21 nucleotides of the sequence set forth as SEQ ID NO: 5, the nucleotides being linked via phosphorothioate internucleotide linkages, and the oligonucleotide being specifically complementary to nucleotides 324 to 345 of a conserved *gag* region of the HIV-1 genome, wherein the synthetic oligonucleotide does not have the sequence set forth as SEQ ID NO: 4 and is not complementary to the conserved *gag* region of the HIV-1 genome beyond nucleotides 324 to 345.
- 2. (original) The oligonucleotide of claim 1, wherein the nucleotides comprise at least two 3'-terminal ribonucleotides, at least two 5'-terminal ribonucleotides, or at least two 3'-terminal and at least two 5' terminal ribonucleotides.
- 3. (original) The oligonucleotide of claim 2, wherein the ribonucleotides are 2'-substituted ribonucleotides.
- 4. (original) The oligonucleotide of claim 3, where the 3'-substituted ribonucleotides are 2'-O-alkyl ribonucleotides.
- 5. (**original**) The oligonucleotide of claim 4, wherein the ribonucleotides are 2'-O-methyl ribonucleotides.
- 6. (**previously presented**) The oligonucleotide of claim 2, wherein the nucleotides consist essentially of four 3'-terminal ribonucleotides and four 5'-terminal ribonucleotides, flanking 13 deoxynucleotides.

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18. (canceled.

19. (canceled)

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7. (original) The oligonucleotide of claim 6, wherein the ribonucleotides are 2'-O-methyl ribonucleotides. 8. (original) The oligonucleotide of claim 1, having SEQ ID NO:1. 9. (original) The oligonucleotide of claim 1, having SEQ ID NO:3. 10. (original) The oligonucleotide of claim 7, having SEQ ID NO:1. 11. (original) The oligonucleotide of claim 7, having SEQ ID NO:3. 12. (original) The oligonucleotide of claim 1, having SEQ ID NO:2. 13. (canceled) 14. (original) The oligonucleotide of claim 1, which inhibits HIV-1 or HIV-2 infection in a cell. 15. (original) The oligonucleotide of claim 1, which exhibits antiviral activity against HIV-1 and HIV-2. 16. (canceled) 17. (canceled)

- 20. (canceled)
 21. (canceled)
 22. (canceled)
 23. (canceled)
 24. (canceled)
 25. (canceled)
 26. (canceled)
 27. (canceled)
 28. (canceled)
- 30. (currently amended) The method of claim 16, wherein the oligonucleotide is administered A method of treating HIV-1 or HIV-2 infection in a, human comprising

administering intravenously to the human a synthetic oligonucleotide in an amount effective to inhibit the proliferation of HIV-1 or HIV-2, the oligonucleotide comprising a nucleotide sequence consisting of 21 nucleotides of the sequence set forth as SEQ ID NO: 5, the nucleotides being linked via phosphorothioate internucleotide linkages, and the oligonucleotide being specifically complementary to nucleotides 324 to 345 of a conserved gag region of the HIV-1 genome.

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- 31. (**original**) A pharmaceutical formulation comprising the oligonucleotide of claim 1 in a pharmaceutically acceptable carrier.
- 32. (**original**) A pharmaceutical formulation comprising the oligonucleotide of claim 6 in a pharmaceutically acceptable carrier.
- 33. (**original**) A pharmaceutical formulation comprising the oligonucleotide of claim 7 in a pharmaceutically acceptable carrier.
- 34. (canceled)
- 35. (canceled)
- 36. (canceled)
- 37. (canceled)
- 38. (canceled)
- 39. (currently amended) A method for introducing an intact oligonucleotide into a mammal, the method comprising the step of orally administering to the mammal the oligonucleotide of claim 7 a synthetic oligonucleotide comprising a nucleotide sequence consisting of 21 nucleotides of the sequence set forth as SEQ ID NO: 5, the nucleotides being linked via phosphorothioate internucleotide linkages, wherein the nucleotides consist essentially of four 3'-terminal 2'-O-methyl ribonucleotides and four 5'-terminal 2'-O-methyl ribonucleotides, flanking 13 deoxynucleotides and the oligonucleotide being specifically complementary to nucleotides 324 to 345 of a conserved gag region of the HIV-1 genome, wherein the synthetic oligonucleotide does not have the sequence set forth as SEQ ID NO: 4 and is not complementary to the conserved gag region of the HIV-1 genome beyond nucleotides 324 to 345,

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whereby the oligonucleotide is present in intact form in the systemic plasma following oral administration.

- 40. (canceled)
- 41. (canceled)